



EnviroSystems, Inc.
P.O. Box 778
Hampton, NH 03843-0778
603-926-3345

December 10, 2014

Ms. Terri O'Callaghan
United Water
Hull Water Pollution Control Facility
1111 Nantasket Avenue
Hull, Massachusetts 02045

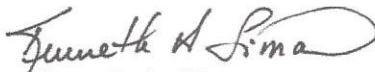
Dear Ms. O'Callaghan:

Enclosed, please find a copy of our report presenting the results of a toxicity test completed using an effluent sample collected from the Hull, Massachusetts Water Pollution Control Facility during the November 2014 sampling period. Acute toxicity was evaluated using the inland silverside minnow: *Menidia beryllina*.

Please do not hesitate to call me, Kirk Cram or Petra Karbe should you have any questions regarding the report.

Sincerely,

EnviroSystems, Incorporated


Kenneth A. Simon
Technical Director

Enclosure

WET Test Report Certification
Report Number 25394-14-11
One (1) copy + email

WHOLE EFFLUENT TOXICITY TEST REPORT CERTIFICATION

Permittee Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Executed on: _____

Authorized Signature

Print or Type Name

Hull Permanent Sewer Commission

Print or Type the Permittee's Name

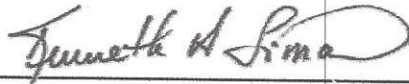
MA0101231

Type or Print the NPDES Permit No.

WHOLE EFFLUENT TOXICITY TEST REPORT CERTIFICATION (Bioassay Laboratory)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Executed on: December 10, 2014



Kenneth A. Simon
Technical Director - EnviroSystems, Inc.

**TOXICOLOGICAL EVALUATION
OF A TREATED MUNICIPAL EFFLUENT
BIOMONITORING SUPPORT FOR A NPDES PERMIT:
November 2014**

**Hull Water Pollution Control Facility
Hull, Massachusetts
NPDES Permit Number MA0101231**

Prepared For:

United Water
Hull Water Pollution Control Facility
1111 Nantasket Avenue
Hull, Massachusetts 02045

Prepared By:

EnviroSystems, Incorporated
One Lafayette Road
Hampton, New Hampshire 03842

November 2014
Reference Number Hull 25394-14-11

STUDY NUMBER 25394

EXECUTIVE SUMMARY

The following summarizes the results of an acute exposure bioassay completed during November 2014 in support of the NPDES biomonitoring requirements of the Hull, Massachusetts Water Pollution Control Facility, operated by United Water. The 48 hour acute definitive assay was completed using the inland silverside minnow: *Menidia beryllina*.

M. beryllina were 9 days old at the start of the test. Dilution water was receiving water collected from Massachusetts Bay at a point away from the discharge.

Samples were received under chain of custody in good order. All sample receipt, test conditions and control endpoints were within protocol specifications, except where otherwise noted. The results presented in this report relate only to the samples described on the chain(s) of custody and sample receipt log(s), and are intended to be used only by the submitter.

Results from the acute exposure assay and their relationship to permit limits are summarized in the following matrix.

Acute Toxicity Evaluation

Species	Exposure	LC-50	A-NOEC	Permit Limit (LC-50)	Effluent Meets Permit Limit	Assay Meets Protocol Limits
<i>Menidia beryllina</i>	48 Hours	>100%	NC	≥ 100%	Yes	Yes